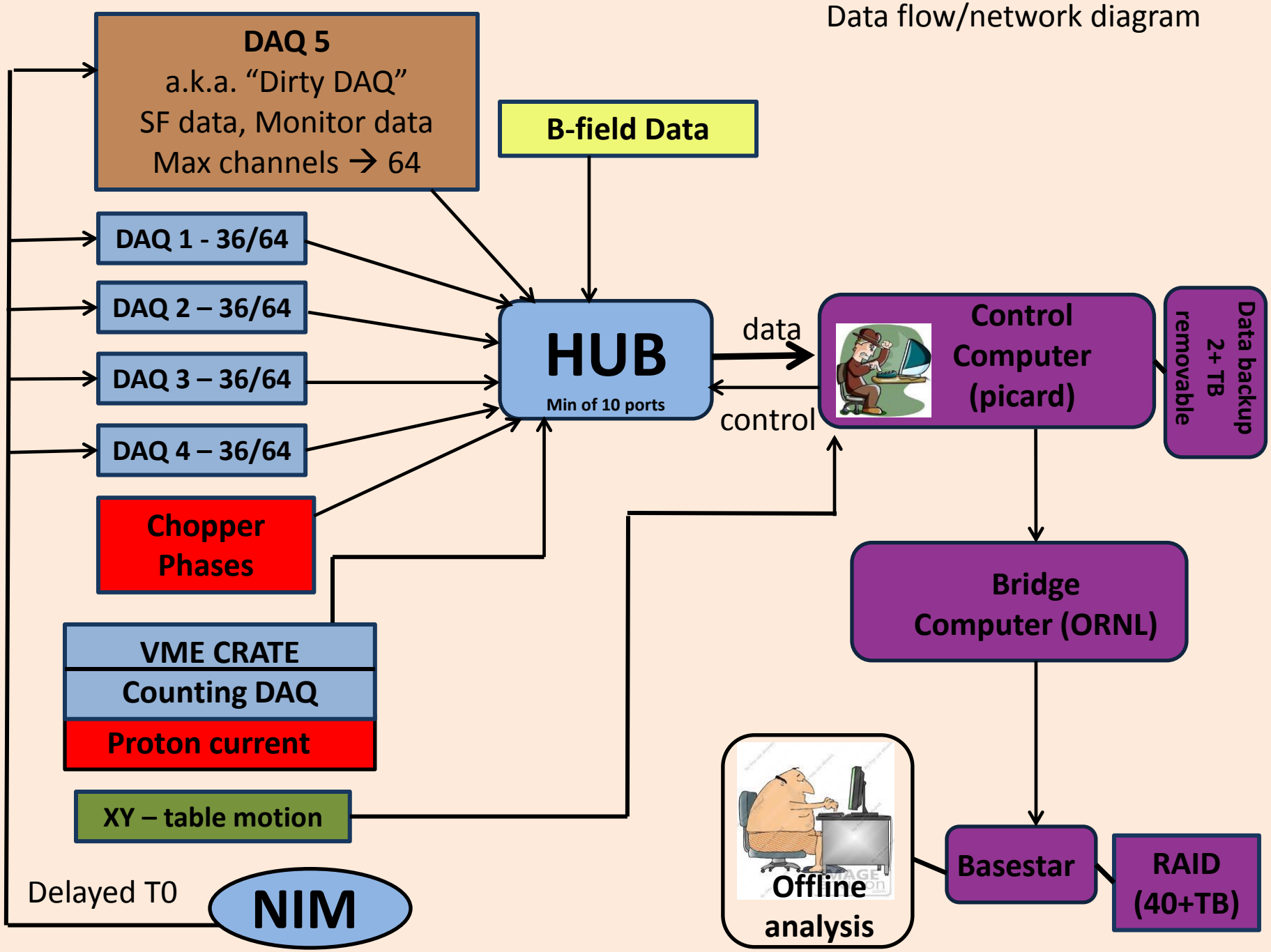
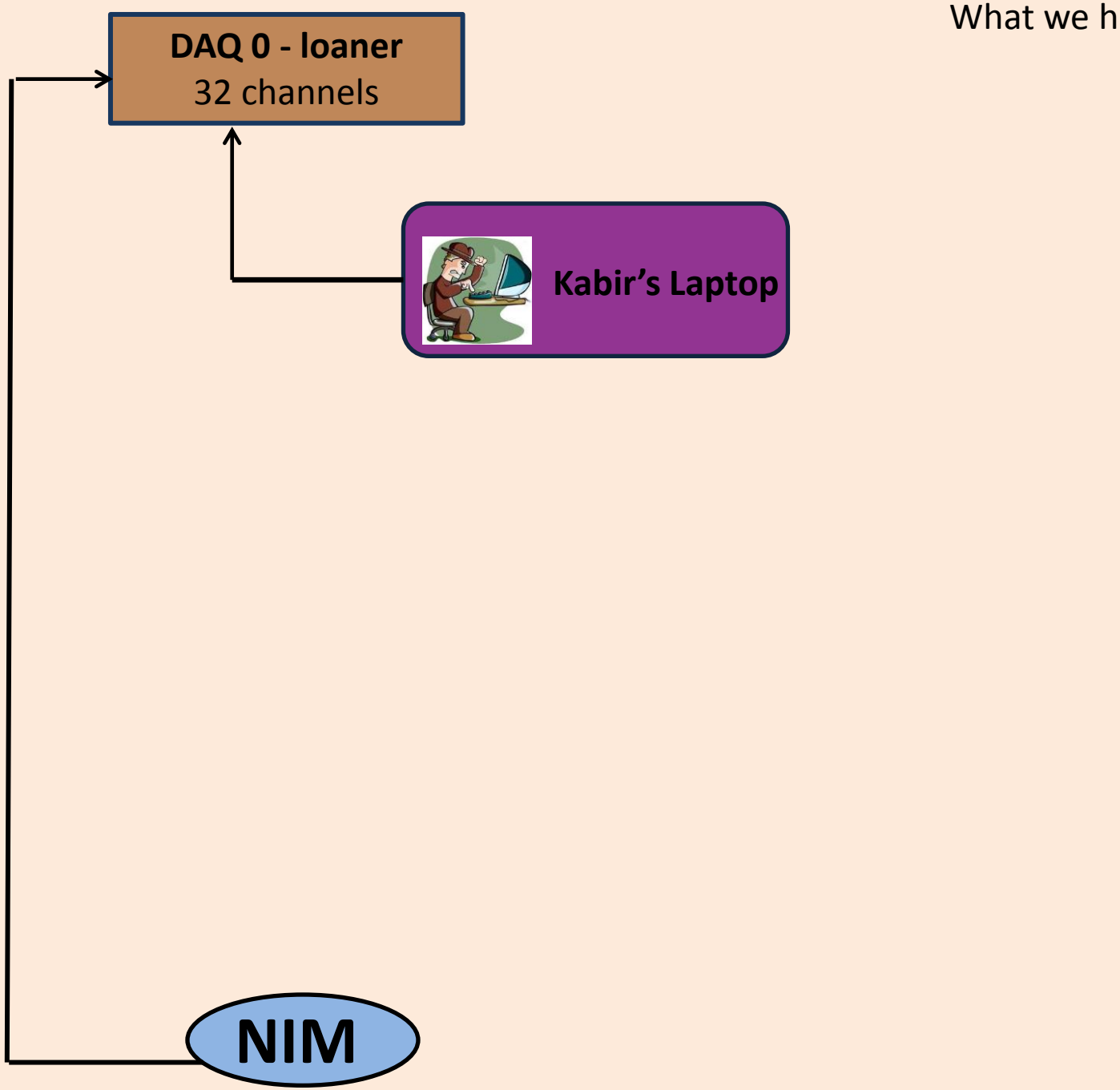
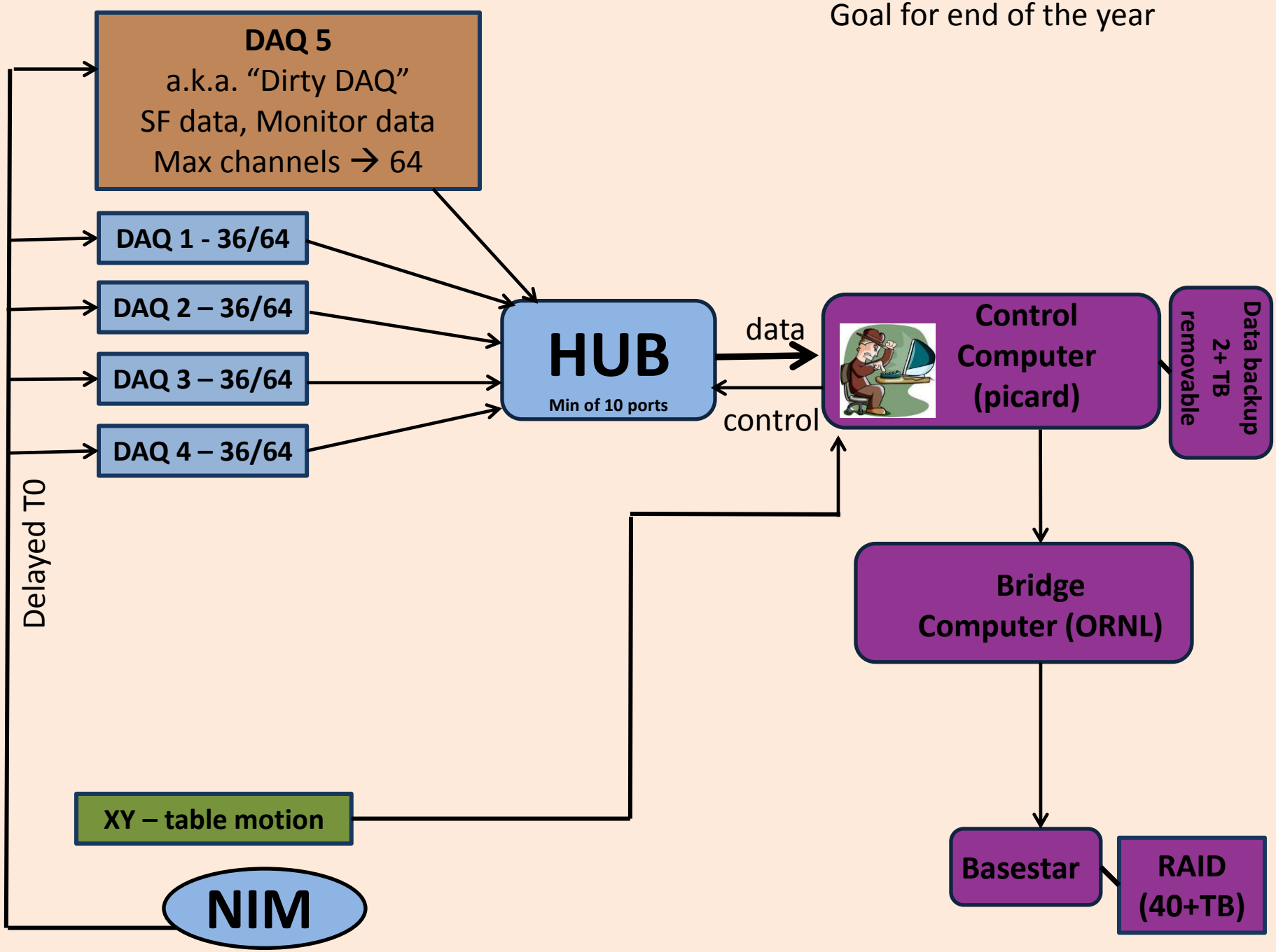
Data flow/network diagram



What we have now



Goal for end of the year



Goals from 11/07/2013 for 11/20/2013

- 1) Get and configure Picard → ***ON TRACK***
- 2) Define and implement data structure for “clean” modules → ***ON TRACK***
- 3) Minimal GUI to take data and write runlist file → ***volunteer?***
- 4) Library to read data from “clean” modules → ***Nadia***
- 5) Headers written (Chris, is this doable quickly?)

Other Short-Term issues to resolve/organize

For Picard/Interface:

Configure computer (fancy private network, etc)
GUI to automate data taking
Copy runs to RAID (when it exists)
PULL information from all sources (that exist)
Expert/shift-taker mode
Runlist organization
Update root Tree and library
Automated elog entries? (for each run)
Remote elog capabilities
Data reduction for quick analysis

Data transfer from DAQ

Do we need ethernet/fiber?

DAQ 1-4

10 kHz clock rate
100 us between samples
4 samples/tbin
0.4 ms tbins
16.4 ms of data

Triggering:

Does module have Digital I/O – if yes, use that from all DAQ modules ANDed with T0.

Spin Sequence

Why not use old sequencer?
Puts out a TTL signal (or nothing)

- Version control → computer; basestar
- RAID plan
- Elog on bsg
- Document server
- Board – trace bad channel (x36) and other boards
- ethernet – fiber hubs (kabir)
- Fiber ethernet computer card
- Ground diagram
- 24 bits, 10 bits of noise
- Schemes for data compression